

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	1211	("20010001745" "20010015854" "20010036755" "20010041426" "20020005888" "20020080841" "20020083557" "20020094008" "20020104750" "20020117630" "20020119609" "20020146873" "20020151115" "20020151121" "20020173147" "20030006221" "20030013278" "20030021307" "20030024905" "20030029212" "20030035219" "20030042430" "20030059990" "20030068836" "20030080099" "20030096489" "20030119286" "20030132205" "20030136772" "20030148565" "20030148594" "20030153182" "20030201442" "20030203549" "20040053450" "20040061843" "20040140470" "20040161913" "20040222187" "20050032249" "20050034653" "20050059265" "20050202654" "3335038" "3348962" "3492635" "3549432" "3585088" "3600237" "3630598" "3632205" "3639039" "3658420" "3670260" "3729252"	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/07 12:03

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L8	25	L7 and (warp\$3 curv\$3 cylindrical\$4 cylinder arc \$4) adj3 (platen support \$3 wafer silicon)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/07 12:03

L9	1	L7 and (warp\$3 curv\$3 cylindrical\$4 cylinder arc \$4 concave) adj3 (platen support\$3 wafer silicon) not 8	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/07 12:07
L10	12	L7 and (warp\$3 curv\$3 cylindrical\$4 cylinder arc \$4) near3 (platen support\$3 wafer silicon) not 8	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/07 12:08
L11	29	L7 and (warp\$3 curv\$3 cylindrical\$4 cylinder arc \$4 concave) near3 (platen support\$3 wafer silicon) not 10	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/07 12:16
L12	3	L7 and (warp\$3 curv\$3 cylindrical\$4 cylinder arc \$4 concave) near3 (platen support\$3 wafer silicon) not 8 not 9 not 10	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/07 12:17
L13	2	((("5858822") or ("7164171")).PN.	USPAT; USOCR	OR	OFF	2009/04/07 12:18
L14	2	13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 12:19
L15	34	laser same warp\$3 near3 glass same (anneal\$4 \$4crystalliz \$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 12:20
L16	1	("4442136").PN.	USPAT; USOCR	OR	OFF	2009/04/07 12:22
L17	27	laser same (warp\$3 curv \$3 cylindrical\$4 cylinder arc\$4) near3 glass same (anneal\$4 \$4crystalliz \$7) not 15	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 12:23
L18	27	17 not 15	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 12:25
L19	2	"20040155019"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 12:34

L20	43	laser same (distort\$4 uniform\$4) with (warp\$3 curv\$3 cylindrical\$4 cylinder arc\$4 concave) near3 (platen support\$3 wafer silicon)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/07 12:35
L21	2	("3154371").PN.	USPAT; USOCR	OR	OFF	2009/04/07 12:37
L22	0	21 and (intens\$5 distort\$4) with (laser beam)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 12:39
L23	1	21 and (intens\$5 distort\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 12:39
L24	0	21 and platen with curv\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 12:40
L25	0	21 and platen	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 12:40
L26	0	21 and curv\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 12:40
L27	36	laser same (distort\$4 uniform\$4) with (drum warp\$3 curv\$3 cylindrical\$4 cylinder arc\$4 concave) near3 (platen support\$3 wafer silicon) not 20	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/07 12:44
L28	1	27 and (elongate\$2 line linear\$3) near2 (laser beam spot) same (drum warp\$3 curv\$3 cylindrical\$4 cylinder arc\$4 concave) with (platen support\$3 wafer silicon)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/07 12:47

L29	16	(elongate\$2 line linear\$3) near2 (laser beam) adj2 spot same (drum warp\$3 curv\$3 cylindrical\$4 cylinder arc\$4 concave) with (platen support\$3 wafer silicon)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/07 12:48
L30	2	("3154371").PN.	USPAT; USOCR	OR	OFF	2009/04/07 12:49
L31	743	(elongate\$2 line linear\$3 rectang\$4) near4 (laser beam) with spot and (drum warp\$3 curv\$3 cylindrical\$4 cylinder arc\$4 concave) with (platen support\$3 wafer silicon chuck)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/07 13:21
L32	23	(elongate\$2 line linear\$3 rectang\$4) near4 (laser beam) with spot and (drum warp\$3 curv\$3 cylindrical\$4 cylinder arc\$4 concave) with (platen support\$3 wafer silicon chuck) same (laser beam) with (gauss\$4 distribut\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/07 13:22
L33	1	13 and fly\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 14:04
L34	81	("20020162630" "3839532" "4059428" "4200272" "4213698" "4724222" "5025157" "5086635" "5292355" "5383990" "5448350" "5643826" "5733182" "5776220" "5820650" "5858822" "5865118" "5907770" "6077731" "6100051" "6104535" "6137633" "6176926" "6246524" "6251217" "6300176" "6304385" "6379755" "6393042" "6440785" "6572095" "6650409" "6707614" "6743601" "6828179" "6902616" "6933527"). PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 14:27

L35	20	((("3154371") or ("5600495") or ("6524977") or ("6255199") or ("5448361") or ("5820650") or ("6156623") or ("6368424") or ("4959522") or ("4918702") or ("4645547") or ("4535218") or ("4630923") or ("4131916") or ("4330363") or ("5421506") or ("6027627") or ("5930606") or ("6255199") or ("6222196"))).PN.	USPAT; USOCR	OR	OFF	2009/04/07 14:31
L36	18	35 not 34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 14:31
L37	1	35 not 36	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 14:33
L38	3	((("4724222") or ("5858822") or ("7164171"))).PN.	USPAT; USOCR	OR	OFF	2009/04/07 14:35
L39	1	38 not 34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 14:35
S1	19	(laser beam) with expand\$4 with (direction axis horizon\$5 vertical \$4) and (laser beam) with condens\$4 with (direction axis horizon\$5 vertical\$4) and focus\$4 with (arc arcuat\$4 cylinder cylindrical\$4 curv\$3) same (\$3crystal \$7 solidif\$7 silicon \$3melt\$3 wafer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/03 14:16

S2	0	S1 and (laser beam spot) with meter	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/03 14:17
S3	3	S1 and (laser beam spot) with (cm m)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/03 14:17
S4	1	S1 and linear with spot	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/03 14:18
S5	4	S1 and linear with focus	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/03 14:18
S6	5	S4 S5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/03 14:18
S7	21	(laser beam) with linear \$4 adj focus\$4 and (focus\$4 spot) with (arc arcuat\$4 cylinder cylindrical\$4 curv\$3) same (\$3crystal\$7 solidif \$7 silicon \$3melt\$3 wafer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/03 14:20
S8	6	S7 and (size length meter yard feet centimeter) with (arc arcuat\$4 cylinder cylindrical\$4 curv\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/03 14:21
S9	80	["20020162630" "3839532" "4059428" "4200272" "4213698" "4724222" "5025157" "5086635" "5292355" "5383990" "5448350" "5643826" "5733182" "5776220" "5820650" "5858822" "5865118" "5907770" "6077731" "6100051" "6104535" "6137633" "6176926" "6246524" "6251217" "6300176" "6304385"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/03 14:24

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S10	15	S9 and (size length meter yard feet centimeter) with (arc arcuat\$4 cylinder cylindrical\$4 curv\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/03 14:24
S11	1121	(laser beam irradiat\$4 imping\$5) with concave near2 (chuck\$3 surface support platen) and laser with (semiconduct \$3 film silicon)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 10:44
S12	702	(laser beam irradiat\$4 imping\$5) with concave near (chuck\$3 surface support platen) and laser with (semiconduct \$3 film silicon)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 10:46
S13	181	laser with (beam irradiat \$4 imping\$5) with concave near (chuck\$3 surface support platen) and laser with (semiconduct\$3 film silicon)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 10:47
S14	40	laser with (irradiat\$4 imping\$5) with concave near (chuck\$3 surface support platen) and laser with (semiconduct \$3 film silicon)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 10:47
S15	50	(laser beam) with (irradiat\$4 imping\$5) with concave near (chuck \$3 surface support platen) and laser with (semiconduct\$3 film silicon)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 10:47

S16	26	(laser beam) with (irradiat\$4 imping\$5) with concave near (chuck\$3 surface support platen) and laser with (semiconduct\$3 film silicon) and (chuck\$3 surface support platen) near3 (semiconduct\$3 film silicon)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 10:49
S17	7	(laser beam) with (irradiat\$4 imping\$5) with concave near (chuck\$3 surface support platen) and laser with (semiconduct\$3 film silicon) and (chuck\$3 surface support platen) near3 (semiconduct\$3 film silicon) with (\$3melt\$4 \$3crystal\$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 10:51
S18	1	"20030218171" and concav\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 10:53
S19	21	(laser beam) with (irradiat\$4 imping\$5) with curv\$5 near (chuck\$3 surface support platen) and laser with (semiconduct\$3 film silicon) and (chuck\$3 surface support platen) near3 (semiconduct\$3 film silicon) with (\$3melt\$4 \$3crystal\$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 10:54
S20	1	(laser beam) with (irradiat\$4 imping\$5) with arcuat\$4 near (chuck\$3 surface support platen) and laser with (semiconduct\$3 film silicon) and (chuck\$3 surface support platen) near3 (semiconduct\$3 film silicon) with (\$3melt\$4 \$3crystal\$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 10:54

S21	18	(laser beam) with (irradiat\$4 imping\$5) with curv\$5 near (chuck\$3 surface support platen) and laser with (semiconduct\$3 film silicon) and (chuck\$3 surface support platen) near3 (semiconduct\$3 film silicon) with (\$3melt\$4 \$3crystal\$9) and (laser beam) near4 (linear\$4 elongat\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 10:56
S22	6	S21 and (laser beam irradiat\$4 imping\$5 chuck\$3 surface support platen semiconduct\$3 film silicon \$3melt\$4 \$3crystal\$9 linear\$4 elongat\$5) with (m meter metre inch foot yard)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:01
S23	2	S22 and (laser beam) with expand\$3 and (laser beam) with condens\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:12
S24	2	S21 and (meter metre)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:20
S25	1	"5858822".pn. and (meter metre)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:21
S26	1	"6593216".pn. and (meter metre)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:21
S27	1	("6440785").PN.	USPAT; USOCR	OR	OFF	2009/04/05 11:22

S28	6	(laser beam) with (irradiat\$4 imping\$5) with (cylindric\$4 cylinder) adj2 (chuck\$3 surface support platen) and laser with (semiconduct\$3 film silicon) and (chuck\$3 surface support platen) near3 (semiconduct\$3 film silicon) with (\$3melt \$4 \$3crystal\$9)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:27
S29	247	(laser beam) with (irradiat\$4 imping\$5) with (cylindric\$4 cylinder) adj2 (chuck\$3 surface support platen) not S28	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:28
S30	22	(laser beam) adj4 (irradiat\$4 imping\$5) adj4 (cylindric\$4 cylinder) adj2 (chuck\$3 surface support platen) not S28	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:28
S31	22	(laser beam) adj4 (irradiat\$4 imping\$5) adj4 (cradl\$3 cylindric\$4 cylinder) adj2 (chuck\$3 surface support platen) not S28	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:35
S32	0	(laser beam) adj4 (irradiat\$4 imping\$5) adj4 (cradl\$3 near2 (chuck\$3 surface support platen) not S28	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:35
S33	1	(laser beam) adj4 (irradiat\$4 imping\$5) adj4 (cradl\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:35
S34	35	(laser beam) adj4 (\$3radiat\$4 imping\$5) adj4 (cradl\$3 cylindric\$4 cylinder) adj2 (chuck\$3 surface support platen) not S28	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:36
S35	13	S34 not S31	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:36

S36	57	(laser beam \$3radiat\$4 light energy) with (\$3melt\$4 \$3crystal\$9) and (linear line elongat \$3) adj2 (laser beam) with (linear line elongat \$3) near2 (cm centimet \$3 meter metre inch foot yard)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:42
S37	2	(laser beam \$3radiat\$4 light energy) with (\$3melt\$4 \$3crystal\$9) and (linear line elongat \$3) adj2 (laser beam) with (linear line elongat \$3) near2 (meter metre foot yard)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:42
S38	49	(laser beam \$3radiat\$4 light energy) same (linear line elongat\$3) adj2 (laser beam) with (linear line elongat\$3) near2 (meter metre foot yard)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:47
S39	2	S38 and (laser beam \$3radiat\$4 light energy) with melt\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:48
S40	4	S38 and (laser beam \$3radiat\$4 light energy) with (silicon wafer semiconduct\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:49
S41	44	S38 not S39 not S40	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:51
S42	36	(laser beam \$3radiat\$4 light energy) same (linear line elongat\$3) adj2 (light spot laser beam) with (linear line elongat\$3) near2 (meter metre foot yard) not S38	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 11:56
S43	9	laser with (linear line elongat\$3) adj (spot beam imping\$5 focus\$4) same (spot beam imping \$5 focus\$4) near5 (meter metre foot yard)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:00

S44	58	laser with (elongat\$3 stretch\$4 expand\$3) adj (spot beam imping\$5 focus\$4) same (meter metre foot yard)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:04
S45	4	laser with (elongat\$3 stretch\$4 expand\$3) adj (spot beam imping\$5 focus\$4) same (spot beam imping\$5 focus\$4) near3 (meter metre foot yard)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:06
S46	310	(laser beam) with (irradiat\$4 imping\$5) with concave adj2 (chuck\$3 surface support platen)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:15
S47	106	laser with (\$3melt\$4 \$3crystal\$9 photo imag \$3) and (laser beam) with (irradiat\$4 imping \$5) with concave adj2 (chuck\$3 surface support platen)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:16
S48	0	laser with (\$3melt\$4 \$3crystal\$9 photo imag \$3) and (laser beam) with (irradiat\$4 imping \$5) with concave adj2 (chuck\$3 support platen) near4 surface	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:16
S49	0	laser with (\$3melt\$4 \$3crystal\$9 photo imag \$3) and (laser beam) with (irradiat\$4 imping \$5) with concave adj2 (chuck\$3 support platen)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:17
S50	131	laser with (\$3melt\$4 \$3crystal\$9 photo imag \$3) and (laser beam) with (irradiat\$4 imping \$5) adj3 concave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:17
S51	2	laser with (\$3melt\$4 \$3crystal\$9 photo imag \$3) and (laser beam) with (irradiat\$4 imping \$5) adj3 concave adj surface	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:18

S52	7	laser same (wafer semiconductor silicon) and (laser beam) with (irradiat\$4 imping\$5) adj3 concave adj surface	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:20
S53	2	laser same (wafer semiconductor silicon) and (laser beam) with (irradiat\$4 imping\$5) adj3 concave adj2 (surface platen support \$3 face bench) not S52	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:21
S54	6	(wafer semiconductor silicon) and (laser beam) with (irradiat\$4 imping \$5) adj3 concave adj2 (surface platen support \$3 face bench) not S52 not S53	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:22
S55	34	(laser beam) with (irradiat\$4 imping\$5) adj3 concave adj2 (surface platen support \$3 face bench) not S52 not S53 not S54	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:23
S56	3	S55 and (elongat\$4 linear\$4 line stretch\$3) near3 (beam spot foot footprint print)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:30
S57	7	S55 and (elongat\$4 linear\$4 line stretch\$3) near3 (beam spot foot footprint print shape)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:31
S58	6	S55 and (elongat\$4 linear\$4 line stretch\$3) adj3 (beam spot foot footprint print shape)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:31
S59	3	((("5858822") or ("6593216") or ("4724222"))) PN	USPAT; USOCR	OR	OFF	2009/04/05 12:47
S60	0	S59 and continuous	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:47

S61	2	S59 and oscillat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:48
S62	3	ex748 and continuous\$4 near3 oscillat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:49
S63	0	S59 and (yag yvo4 ylf yalo3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:50
S64	2	S59 and pulse\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:54
S65	1329	laser with continuous with pulse\$1 with (anneal\$4 \$3crystalliz \$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:56
S66	17	laser with alternativ\$4 with continuous with pulse\$1 with (anneal\$4 \$3crystalliz\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:56
S67	2	S59 and cw	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 12:58
S69	2	"20040155019"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:02
S73	1	S69 and wave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:07
S74	1	S69 and continuous	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:08

S75	2	S59 and (cylinder cylindrical) near2 lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:13
S76	0	S59 and array\$4 near2 lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:13
S77	0	S59 and array\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:15
S78	2	S59 and lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:15
S79	41	fly adj eye with cylind\$5 near array	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:17
S80	0	S59 and condens\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:23
S81	3	S59 and focus\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:23
S82	2	S59 and (lens optic\$4) with focus\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:24
S83	1119	laser with continuous with pulse\$1 with (anneal\$4 \$3crystalliz \$6) and (yag yvo4 ylf yalo3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:26
S84	878	laser with continuous with pulse\$1 with (anneal\$4 \$3crystalliz \$6) same (yag yvo4 ylf yalo3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:26

S85	15	laser with alternativ\$4 with continuous with pulse\$1 with (anneal\$4 \$3crystalliz\$6) and (yag yvo4 ylf yalo3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:31
S86	9	laser with alternativ\$4 with continuous with pulse\$1 with (anneal\$4 \$3crystalliz\$6) same (yag yvo4 ylf yalo3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:32
S87	45	cy lind\$6 near2 lens with planoconcave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:36
S88	22	laser same cy lind\$6 near2 lens with planoconcave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:36
S89	18	laser with (\$3melt\$3 \$3crystalliz\$6 \$3solidif \$8) and laser same cy lind\$6 near2 lens with planoconcave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:37
S90	2	laser with (silicon wafer \$3melt\$3 \$3crystalliz\$6 \$3solidif\$8) and laser same cy lind\$6 near2 lens with planoconcave not S89	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:39
S91	0	laser with cylindrical adj concave same planoconcave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:41
S92	1	laser same cylindrical adj concave same planoconcave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:41
S93	1	laser and cylindrical adj concave same planoconcave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:41
S94	0	cylindrical adj concave with (equivalen\$4 alternativ\$5) with planoconcave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:41

S95	2	cylindrical adj concave with planoconcave with lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:42
S96	3	cylindrical adj2 array with planoconcave same laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:43
S97	3	cylindrical adj2 array with planoconcave and laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:43
S98	3	cylindrical adj2 array with planoconcave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:43
S99	3	cylindrical adj2 array same planoconcave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:43
S100	0	cylinder adj2 array same planoconcave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:44
S101	0	cylinder near2 array same planoconcave	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:44
S102	25	laser with planoconcave with lens	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:47
S103	2	laser with planoconcave with lens with array\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/05 13:47
S104	2	"20040155019"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/06 09:13

S105	3	((("5858822") or ("6593216") or ("4724222")).PN.	USPAT; USOCR	OR	OFF	2009/04/06 09:13
S106	3	S105	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/06 09:13
S107	3	S105 and (concave convex)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/06 09:17
S108	3	S105 and convex	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/06 09:18
S109	2	S105 and warp	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/06 09:20
S110	1	("4724222").PN.	USPAT; USOCR	OR	OFF	2009/04/06 09:27
S111	48	("3920233" "4213698" "4310743" "4443704" "4475223" "4517465" "4603466").PN. OR ("4724222").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:27
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S113	0	S112 and concave near2 stage same laser	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:35
S114	0	S112 and u near2 stage same laser	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:36
S115	0	S112 and (warp\$3 curv \$3) near2 stage same laser	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:36
S116	0	S112 and arcuat\$4 near2 stage same laser	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:36
S117	5	S112 and (arcuat\$4 u warp\$3 curv\$3) near2 (stage support platen surface) same laser	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:37
S118	4292	(arcuat\$4 u warp\$3 curv \$3) near2 (stage support platen surface) same laser not S117	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:39
S119	308	(arcuat\$4 u warp\$3 curv \$3) near2 (stage support platen surface) same laser same (wafer silicon \$3crystalliz\$6 \$3melt\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:40
S120	26	concav\$3 same (arch\$3 arcuat\$4 u warp\$3 curv \$3 bow\$3) near2 (stage support platen surface) same laser same (wafer silicon \$3crystalliz\$6 \$3melt\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:41
S121	0	S120 and lin\$3 near2 laser	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:42
S122	4	S120 and lin\$3 near2 (laser beam)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:42
S123	72	S119 and lin\$3 near2 (laser beam) not S122	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:44
S124	60	S119 and lin\$3 adj2 (laser beam) not S122	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:45

S125	34	S119 and linear adj2 (laser beam) not S122	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:45
S126	13	S119 and linear adj2 (laser beam) with (spot imping\$4 focus\$4) not S122	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:46
S127	11	S126 and yamazaki.in.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:48
S128	82	("5346850" "5382548" "5424244" "5561081" "5583369" "5815494" "5849043" "5858473" "5858822" "5897799" "5907770" "5968383" "6002101" "6002523" "6027960" "6137633" "6143661" "6160827" "6176926" "6242291" "6310727" "6348369" "6353218" "6358784" "6373870" "6393042" "6437313" "6444506" "6455359" "6471772" "6512634" "6516009" "6524977" "6528359" "6558991" "6593216" "6599790" "6613619" "6655767" "6787755").PN. OR ("2001/0012651" "2002/0117630" "2004/0238723" "2006/0068607" "5858822" "6353218" "6437313" "6593216" "6787755" "6989524" "7408144").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:48
S129	6	S128 and concav\$4 near5 (stage support\$3 hold\$3 platen surface)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:49
S130	17	"6244104"	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:54
S131	0	"60244104"	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:54
S132	0	"060244104"	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:54
S133	3	"06244104"	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:54
S134	165	"6-244104"	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:56

S135	61	S134 and concav\$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:56
S136	7	S134 and concav\$4 with (stage support\$3 hold\$3 platen surface)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:57
S137	46	S134 and concav\$4 with (laser beam)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 09:58
S138	11	S134 not tanaka.in. not yamazaki.in. not "semiconductor energy". asn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 10:01
S139	19	"06-244104"	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 10:12
S140	1	S139 and concav\$4 with (stage support\$3 hold\$3 platen surface laser beam)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 10:12
S141	1	S110 and concav\$4 with (stage support\$3 hold\$3 platen surface laser beam)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 10:14
S142	140	linear\$3 near2 (laser beam) same laser same (arch\$3 arcuat\$4 u warp \$3 curv\$3 bow\$3 concav \$4) with (stag\$3 support \$3 platen surface)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 10:16
S143	2835	linear\$3 near2 (laser beam) and (laser beam spot) same (arch\$3 arcuat\$4 u warp\$3 curv \$3 bow\$3 concav\$4) with (stag\$3 support\$3 platen surface)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 10:17
S144	650	S143 and laser same (wafer silicon \$3crystalliz \$6 \$3melt\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 10:18
S145	175	S143 and laser same (wafer silicon) with (\$3crystalliz\$6 \$3melt \$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 10:19
S146	26	S143 and laser same (wafer silicon) with (\$3crystalliz\$6 \$3melt \$3) same (arch\$3 arcuat \$4 u warp\$3 curv\$3 bow \$3 concav\$4) with (stag \$3 support\$3 platen surface)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 10:19

S147	0	S146 not tanaka.in. not yamazaki.in. not "semiconductor energy". asn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 10:20
S148	37	S143 and (laser wafer silicon) with (\$3crystalliz\$6 \$3melt\$3) same (arch\$3 arcuat\$4 u warp\$3 curv\$3 bow\$3 concav\$4) with (stag\$3 support\$3 platen surface) not S146	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 10:21
S149	9	S148 not tanaka.in. not yamazaki.in. not "semiconductor energy". asn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 10:22
S150	44	linear\$3 near2 (laser beam spot) and (laser wafer silicon) with (\$3crystalliz\$6 \$3melt\$3) same (arch\$3 arcuat\$4 u warp\$3 curv\$3 bow\$3 concav\$4) with (stag\$3 support\$3 platen surface) not S146	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 10:26
S151	16	linear\$3 near2 (laser beam spot) and (laser wafer silicon) with (\$3crystalliz\$6 \$3melt\$3) same (arch\$3 arcuat\$4 u warp\$3 curv\$3 bow\$3 concav\$4) with (stag\$3 support\$3 platen surface) not tanaka.in. not yamazaki.in. not "semiconductor energy". asn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 10:27
S152	1	("5858822").PN.	USPAT; USOCR	OR	OFF	2009/04/07 10:06
S153	0	(warp\$3 curv\$3 arcuate\$2) near2 (support\$3 hold\$3) with sheet with (line linear laser) same (line linear) near4 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:09
S154	77	(warp\$3 curv\$3 arcuate\$2) near2 (support\$3 hold\$3) with sheet with (line linear laser)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:09

S155	1	(warp\$3 curv\$3 arcuate \$2) near2 (support\$3 hold\$3) with sheet with distort\$4 same (line linear laser)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:10
S156	0	(warp\$3 curv\$3 arcuate \$2) near2 (support\$3 hold\$3) with sheet with distort\$4 and (elongat\$4 line linear) near5 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:12
S157	1	(warp\$3 curv\$3 arcuate \$2) near2 (support\$3 hold\$3) with sheet with distort\$4 and (elongat\$4 long extend\$4 line linear) near5 (laser spot focus\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:12
S158	0	(warp\$3 curv\$3 arcuate \$2) near2 (support\$3 hold\$3) with sheet with distort\$4 and (elongat\$4 long extend\$4 line linear) with (spot focus \$4) with laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:13
S159	2	(warp\$3 curv\$3 arcuate \$2) with (support\$3 hold \$3) with sheet with (distort\$4 shap\$3 irradiat \$4) and (elongat\$4 long extend\$4 line linear) with (spot focus\$4) with laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:14
S160	0	(warp\$3 curv\$3 arcuate \$2 tubular cylindrical\$3) near2 (platen wafer \$4silicon support\$3 hold \$3 sheet) with (spot focus\$4) near2 (distort \$4 shap\$3 irradiat\$4) and (elongat\$4 long extend\$4 line linear) with (spot focus\$4) with laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:20
S161	5223	(elongat\$4 long extend \$4 line linear stretch\$3 ellip\$7 oval\$4) near2 (spot focus\$4) with laser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:22

S162	170	S161 and (warp\$3 curv\$3 arcuate\$2 tubular cylindrical\$3) near2 (platen wafer \$4silicon support\$3 hold\$3 sheet)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:23
S163	79	S162 and laser with (\$4crystalliz\$4 \$4melt\$4 single glass)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:24
S164	0	S163 and (warp\$4 distort\$4 curv\$5) near2 end	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:37
S165	3	S163 and (warp\$4 distort\$4 curv\$5) near5 end	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:37
S166	175	laser with (elongat\$4 long extend\$4 line linear stretch\$4 ellip\$7 oval\$4) with (warp\$4 distort\$4 curv\$5) near5 end	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:39
S167	5	laser with (elongat\$4 long extend\$4 line linear stretch\$4 ellip\$7 oval\$4) near4 (spot focus\$4) with (warp\$4 distort\$4 curv\$5) near5 end	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:40
S168	4	laser with (elongat\$4 long extend\$4 line linear stretch\$4 ellip\$7 oval\$4) near4 (spot focus\$4) same (warp\$4 distort\$4) near5 end not S167	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:42
S169	0	laser with (elongat\$4 long extend\$4 line linear stretch\$4 ellip\$7 oval\$4) near4 (spot focus\$4) same (warp\$4 distort\$4 unfocus\$4 "not focus\$4" "not in focus") near5 end not S167 not S168	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:45

S170	30	laser with (elongat\$4 long extend\$4 line linear stretch\$4 ellip\$7 oval\$4) near4 (spot focus\$4) and (warp\$4 distort\$4 unfocus\$4 "not focus\$4" "not in focus") near5 end not S167 not S168	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 10:46
S171	10	(elongat\$4 long extend\$4 line linear stretch\$4 ellip\$7 oval\$4) near4 (spot focus\$4) and laser same (warp\$4 distort\$4 unfocus\$4 "not focus\$4" "not in focus") near5 end not S167 not S168 not S170	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 11:10
S172	26	(elongat\$4 long extend\$4 line linear stretch\$4 ellip\$7 oval\$4) near4 (point spot focus\$4) and laser same (warp\$4 distort\$4 unfocus\$4 "not focus\$4" "not in focus") near5 end not S167 not S168 not S170 not S171	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 11:14
S173	52	(elongat\$4 long extend\$4 line linear stretch\$4 ellip\$7 oval\$4) near4 (point spot focus\$4) and laser same (warp\$4 distort\$4 unfocus\$4 "not focus\$4" "not in focus") near5 (end extrem\$3) not S167 not S168 not S170 not S171	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 11:15
S174	9	(elongat\$4 long extend\$4 line linear stretch\$4 ellip\$7 oval\$4) adj2 (point spot focus\$4) and laser same (warp\$4 distort\$4 unfocus\$4 "not focus\$4" "not in focus") near5 (end extrem\$3) not S167 not S168 not S170 not S171	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 11:17

S175	3	(elongat\$4 line linear stretch\$4) adj2 (point spot focus\$4) with laser and (warp\$4 distort\$4 unfocus\$4 "not focus\$4" "not in focus") near5 (end extrem\$3) not S167 not S168 not S170 not S171 not S174	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 11:27
S176	11	(elongat\$4 line linear stretch\$4) adj2 (point spot focus\$4) same laser and (warp\$4 distort\$4 unfocus\$4 "not focus\$4" "not in focus") near5 (end extrem\$3) not S167 not S168 not S170 not S171 not S174	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 11:27
S177	2	(expand\$3 with (laser beam) with direction same laser) and (condens\$3 with (laser beam) with direction same laser) and (warp\$4 distort\$4 unfocus\$4 "not focus\$4" "not in focus") near5 (end extrem\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 11:39
S178	14	(expand\$3 with (laser beam)) same (condens\$3 with (laser beam)) same laser and (warp\$4 distort\$4 unfocus\$4 "not focus\$4" "not in focus") near5 (end extrem\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/07 11:40
S179	96	("20010000243" "20010035526" "20010036755" "20010055830" "20020005888" "20020048864" "20020080841" "20020098628" "20020134981" "20020173147" "20020192956" "20030141505" "20030186490" "20030201442" "20030218171" "4330363" "4385937" "4565584" "4711026" "4933298" "5313075" "5432122" "5576231"	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/07 11:44

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S180	50	S179 and (long elongat \$4 linear line narrow) adj3 (beam spot)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/07 11:45
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